In the Claims:

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- 1 1. (original) Method for calibrating 3D image sensors, said sensors comprising:
- a light source emitting a modulated emitted signal into the viewed scene; and
 - a receiving array consisting of a plurality of pixels, said pixels generating a received signal for every pixel individually from a demodulation signal comprising a predetermined phase position with respect to the emitted signal and from the detected radiation reflected by the scene, said received signal being used as a measure of distance;
- 12 characterized in that
- for the purpose of calibration, the entire receiving array is exclusively illuminated with a calibrating radiation comprising a phase position which is at least largely homogenous for all pixels with respect to the demodulation signal and that the occurring received signals of the individual pixels are evaluated.
- 1 2. (original) Method according to claim 1, characterized in
 2 that the relative phase deviation between the pixels is
 3 detected.

Claims 3 to 9 (canceled).